

ABSTRACT

Methods are presented for modifying a physical property of a structure, such as reducing or relieving remaining internal stress, in which two or more
5 energy types are concurrently applied to the structure to change the physical property of interest in an accelerated fashion. A first energy type, such as heat, is applied according to time values and operational settings derived from a first order rate relationship for the first energy type and from a first order rate
10 relationship for a second energy type. The second energy type, such as vibration or other time-varying energy form, is applied concurrently for the time value. Methods are also provided for determining operational settings for concurrent application of multiple energy types to a structure.